

# PATENT ABSTRACTS OF JAPAN

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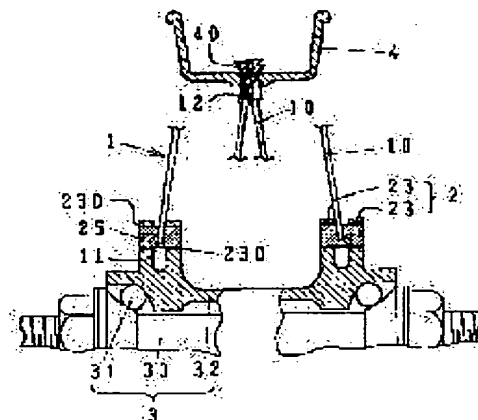
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## (54) JOINT STRUCTURE OF HUB AND SPOKE FOR BICYCLE

### (57)Abstract:

**PURPOSE:** To maintain the degree of freedom for a spoke extension mode, regarding the structure where an expanded head formed at one end of a straight spoke is jointed to a hub body.

**CONSTITUTION:** Each one set of two flanges 23 and 23 faced to each other via a small gap is arranged on the external surface of both ends of a hub body 32, and bearing holes 230 and 230 are drilled through the sets of the flanges 23 and 23 in such state as opposed to each other. In addition, spoke support shafts 25 are inserted in the holes 230 and 230, so as to be capable of free rotation, and straight spokes 1 are provided through spoke insertion holes formed at the center of the shafts 25 in a radial direction.



## LEGAL STATUS

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